

ABSTRACT OF THE DISCLOSURE:

An aggregate of polyethylenterephthalate granules for the manufacture of lightened concrete. A process for preparing the aggregate includes the step of reducing PET material to flakes, subjecting the PET flakes to a thermal and mechanical process to form flake aggregates, and if desired coating the PET flake aggregates with sand. The product can be used for the preparation of structural or non-structural concrete or materials for the building industry.